

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) DATE SUBMITTED TO PTO: <u>April 28, 2003</u>				ATTY DOCKET NO. PD-980024A		APPLICATION NO. 10/038,003	
				APPLICANT Eroz et al.			
				FILING DATE Jan. 3, 2002		GROUP 2133	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SMB	1	2003/0041297 A1	27-Feb-03	Eroz et al.	714	755	28-May-02
SMB	2	2003/0051205 A1	13-Mar-03	Eroz et al.	714	792	28-May-02

FOREIGN PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS


  

OTHER DOCUMENT(S)		
*EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.	

EXAMINER <u>Stephen M. Baker</u>	DATE CONSIDERED <u>3/5/04</u>
----------------------------------	-------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO 1449 (modified)				ATTY DOCKET NO. PD-980024A		APPLICATION NO. 10/038,003	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				APPLICANT Eroz et al.			
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				FILING DATE Jan. 3, 2002		GROUP 2133 Unknown	
DATE SUBMITTED TO PTO: October 28, 2002				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b>  OCT 31 2002  371 43 </div>			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SMB	1	5,687,095	Haskell et al.	371	43	1-Nov-94	
SMB	2	5,721,745	Hladik et al.	371	43	19-Apr-96	
SMB	3	5,742,612	Gourgue et al.	371	2.1	1-Jun-94	
SMB	4	5,944,850	Chouly et al.	714	790	9-Dec-97	
SMB	5	5,978,414	Nara	375	225	3-Jul-96	
SMB	6	5,996,104	Herzberg	714	755	5-Sep-97	
SMB	7	6,023,783	Divsalar et al.	714	792	15-May-97	
SMB	8	6,289,486 B1	Lee et al.	714	788	30-Jul-98	
FOREIGN PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS	
SMB	9	0300139 A2 & A3	EPO				
SMB	10	WO 96/37050 A1	PCT				
SMB	11	DE 19520987 A1	Germany			YES	
SMB	12	DE 19736653 C1	Germany			YES	
OTHER DOCUMENT(S)							
*EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.						
SMB	13	Berrou et al., Near Shannon Limit Error – Correcting Code and Decoding: Turbo Codes, 23-May-1993, Pp 1064-1070.					
SMB	14	Maric, Class of Algebraically Constructed Permutations for Use in Pseudorandom Interleavers, Electronics Letters, Vol. 30, No. 17, 18-Aug-1994, Pp 1378-1379.					
SMB	15	Divsalar et al., "Turbo Codes for PCS Applications," 18-Jun-1995, Pp 54-59.					
SMB	16	Divsalar et al., "Multiple Turbo Codes," IEEE Proceedings of the Military Communications Conference, San Diego, CA, Vol. 1, 6-Nov-1995, Pp 279-285.					
SMB	17	Benedetto et al., "Unveiling Turbo Codes: Some Results on Parallel Concatenated Coding Schemes," IEEE Transactions on Information Theory, Vol. 4, No. 2, 1-Mar-1996, Pp 409-428.					
SMB	18	Benedetto et al., "Design of Parallel Concatenated Convolutional Codes," IEEE Transactions on Communications, Vol. 44, No. 5, 1-May-96, Pp 591-600.					
SMB	19	Lee et al., "Turbo Code and Its Performance," TIA TR45.5.4, 8-Dec-97.					
SMB	20	Eroz et al., "RTT Text for Turbo Codes," ETSI SMG2UMTS-L1, Oslo, Norway, 1-Apr-98.					
SMB	21	Eroz et al., "FER and BER Comparisons of Turbo versus Convolutional Codes," ETSI SMG2UMTS-L1, Paris, France, 28-Apr-1998.					
EXAMINER Stephen M. Baker			DATE CONSIDERED 3/14/04				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  DATE SUBMITTED TO PTO: October 28, 2002				ATTY DOCKET NO. PD-980024A		APPLICATION NO. 10/038,003	
				<div style="display: flex; justify-content: space-between; align-items: center;"> <div>           APPLICANT            Eroz et al.         </div> <div style="border: 1px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">             RECEIVED           </div> </div>			
				FILING DATE Jan. 3, 2002			

OIPE  
 OCT 30 2002  
 PATENT & TRADEMARK OFFICE

OCT 31 2002  
 Technology Center 2100

2133  
 Unknown-

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SMB	22	6,332,209 B1	18-Dec-01	Eroz et al.	714	790	20-Aug-99
SMB	23	6,334,197 B1	25-Dec-01	Eroz et al.	714	701	16-Aug-99
SMB	24	6,430,722 B1	6-Aug-02	Eroz et al.	714	755	22-Jan-99
SMB	25	2002/0083395 A1	27-Jun-02	Eroz et al.	714	790	18-Dec-01
SMB	26	2002/0087923 A1	4-Jul-02	Eroz et al.	714	702	19-Dec-01

FOREIGN PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS	

OTHER DOCUMENT(S)	
*EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
SMB	27 Lee et al., "Third Generation Wireless Technologies – Expectations and Realities," 9 <sup>th</sup> IEEE International Symposium on Personal Indoor and Mobile Radio Communications, Boston, MA, 8-Sep-1998, Vol. 1, Pp 79-83.
SMB	28 Ho et al., "Improving the Constituent Codes of Turbo Encoders," IEEE Globecom 1998, The Bridge to Global Integration, Sydney, Vol. 6, 8-Nov-1998, Pp 3525-3529.

EXAMINER	DATE CONSIDERED
Stephen M. Baker	3/15/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO 1449 (modified)		ATTY DOCKET NO. PD- 980024A		APPLICATION NO. 10/038,003	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE					
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		APPLICANTS Mustafa Eroz et al.			
DATE SUBMITTED TO PTO: <u>October 2, 2002</u>		FILING DATE January 03, 2002		GROUP <del>Unknown</del> 2133	

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

RECEIVED  
OCT 15 2002  
Technology Center 2100

EXAMINER	DATE CONSIDERED
----------	-----------------

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

SUB		Barbulescu et al., "Rate Compatible Turbo Codes," Electronics Letters, Vol. 31, No. 7, March 30, 1995, pp. 535-536.

EXAMINER <u>Stephen M. Baker</u>	DATE CONSIDERED <u>3/15/04</u>
-------------------------------------	-----------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  DATE SUBMITTED TO PTO: <u>October 2, 2002</u>	ATTY DOCKET NO. <b>PD- 980024A</b>	APPLICATION NO. <b>10/038,003</b>
	APPLICANTS <b>Mustafa Eroz et al.</b>	
	FILING DATE <b>January 03, 2002</b>	GROUP <del>Unknown</del> <b>2133</b>

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SWB	5,983,384	9 Nov. 1999	Ross	714	755	21 April 1997
SWB	6,088,387	11 Jun. 2000	Gelblum et al.	375	222	31 Dec. 1997
SWB	6,094,427	25 Jun. 2000	Yi	370	331	7 Jul. 1998

EXAMINER

DATE CONSIDERED

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ABS
SWB	WO 98/48517	29 Oct. 1998	WIPO			
SWB	DE 197 36 653	10 Dec. 1998	Germany			No.

RECEIVED

OCT 08 2002

Technology Center 2100

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

SWB	Acikel, O.F. et al., "High Rate Turbo Codes for BPSK/QPSK Channels", ICC '98 1998 IEEE International Conf. On Communications, June 7-11, 1998, pp. 422-427, vol. 1.
SWB	Riedel, S., "Symbol-by-Symbol MAP Decoding Algorithm for High-Rate Convolutional Codes That Use Reciprocal Dual Codes", IEEE Journal on Selected Areas in Communications., vol. 16, No. 2, Feb. 1, 1998, pp. 175-185.
SWB	Rowitch, D.N. et al., "Rate Compatible Punctured Turbo (RCPT) Codes in a Hybrid FEC/ARQ System", 1997 IEEE Global Telecommunications Mini-Conference, vol. 4, Nov. 1999, pp. 55-59.
SWB	Chan et al., "An Adaptive Hybrid FEC/ARQ Protocol Using Turbo Codes", 1997 IEEE 6 <sup>th</sup> International Conference on Universal Personal Communications, Oct. 1997, pp. 541-545.

EXAMINER

Stephen M. Baker

DATE CONSIDERED

3/15/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.